

=> file reg  
 FILE 'REGISTRY' ENTERED AT 17:37:48 ON 23 SEP 2005  
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Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 22 SEP 2005 HIGHEST RN 863708-11-6  
 DICTIONARY FILE UPDATES: 22 SEP 2005 HIGHEST RN 863708-11-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

\*\*\*\*\*  
 \*  
 \* The CA roles and document type information have been removed from \*  
 \* the IDE default display format and the ED field has been added, \*  
 \* effective March 20, 2005. A new display format, IDERL, is now \*  
 \* available and contains the CA role and document type information. \*  
 \*  
 \*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS  
 for details.

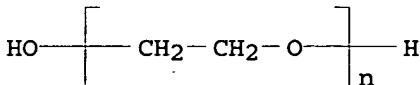
Experimental and calculated property data are now available. For more  
 information enter HELP PROP at an arrow prompt in the file or refer  
 to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d que l10  
 L10 1 SEA FILE=REGISTRY ABB=ON "POLYETHYLENE GLYCOL"/CN

=> d scan l10

L10 1 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Poly(oxy-1,2-ethanediyl),  $\alpha$ -hydro- $\omega$ -hydroxy- (9CI)  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT  
 MF (C2 H4 O)<sub>n</sub> H2 O  
 CI PMS, COM

*Claim 1 structure (*



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> d que 119

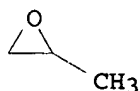
L12 26351 SEA FILE=REGISTRY ABB=ON 75-21-8/CRN  
 L16 20223 SEA FILE=REGISTRY ABB=ON 75-56-9/CRN  
 L17 15988 SEA FILE=REGISTRY ABB=ON L12 AND L16  
 L18 11 SEA FILE=REGISTRY ABB=ON L17 AND 2/NC  
 L19 8 SEA FILE=REGISTRY ABB=ON L18 NOT 1-2/P

=> d scan 119

L19 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, methyl-, polymer with oxirane, pentablock (9CI)  
 MF (C3 H6 O . C2 H4 O)x  
 CI PMS

CM 1

*Claim 1 structure 2*



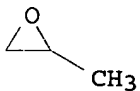
CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):7

L19 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, methyl-, polymer with oxirane, graft (9CI)  
 MF (C3 H6 O . C2 H4 O)x  
 CI PMS

CM 1



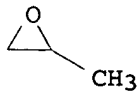
CM 2



L19 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, methyl-, polymer with oxirane (9CI)  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT

MF (C3 H6 O . C2 H4 O)x  
CI PMS, COM

CM 1



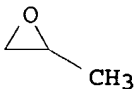
CM 2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L19 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Oxirane, methyl-, polymer with oxirane, diblock (9CI)  
MF (C3 H6 O . C2 H4 O)x  
CI PMS, COM

CM 1

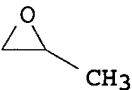


CM 2



L19 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN Oxirane, methyl-, mixt. with oxirane (9CI)  
MF C3 H6 O . C2 H4 O  
CI MXS

CM 1



CM 2

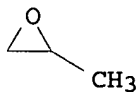
*Claimed structure 2*



L19 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, methyl-, polymer with oxirane, tetrablock (9CI)  
 MF (C3 H6 O . C2 H4 O)x  
 CI PMS, COM

CM 1

*Claim 1  
structure 2*

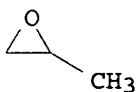


CM 2



L19 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, methyl-, polymer with oxirane, triblock (9CI)  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT  
 MF (C3 H6 O . C2 H4 O)x  
 CI PMS, COM

CM 1



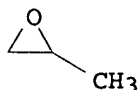
CM 2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L19 8 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, methyl-, polymer with oxirane, block (9CI)  
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT  
 MF (C3 H6 O . C2 H4 O)x  
 CI PMS, COM

CM 1



CM 2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

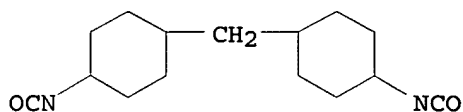
=> d que 150

L12 26351 SEA FILE=REGISTRY ABB=ON 75-21-8/CRN  
 L22 4403 SEA FILE=REGISTRY ABB=ON 5124-30-1/CRN  
 L23 309 SEA FILE=REGISTRY ABB=ON L12 AND L22  
 L24 2 SEA FILE=REGISTRY ABB=ON L23 AND 2/NC  
 L25 14 SEA FILE=REGISTRY ABB=ON L23 AND 3/NC  
 L50 16 SEA FILE=REGISTRY ABB=ON L24 OR L25

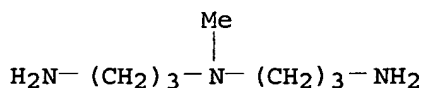
=> d scan 150

L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 1,3-Propanediamine, N-(3-aminopropyl)-N-methyl-, polymer with  
 1,1'-methylenebis[4-isocyanatocyclohexane] and oxirane, block (9CI)  
 MF (C15 H22 N2 O2 . C7 H19 N3 . C2 H4 O)x  
 CI PMS

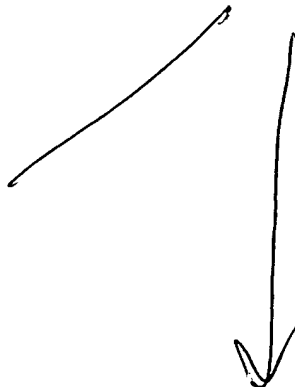
CM 1



CM 2



*Claim 1 structure 3*



CM 3

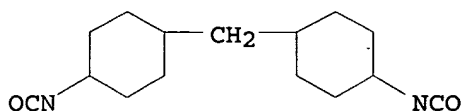


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):15

L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane], triblock  
 (9CI)  
 MF (C15 H22 N2 O2 . C2 H4 O)x  
 CI PMS, COM

CM 1

*Claim 1  
structure 3*

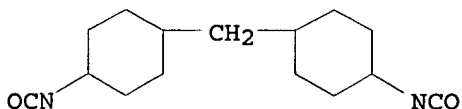


CM 2



L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane], block  
 (9CI)  
 MF (C15 H22 N2 O2 . C2 H4 O)x  
 CI PMS, COM

CM 1



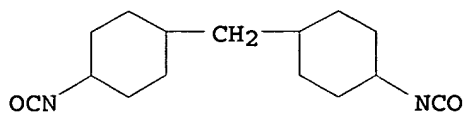
CM 2



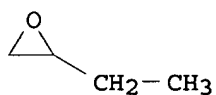
L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, ethyl-, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane]

and oxirane, block (9CI)  
MF (C15 H22 N2 O2 . C4 H8 O . C2 H4 O)x  
CI PMS

CM 1



CM 2



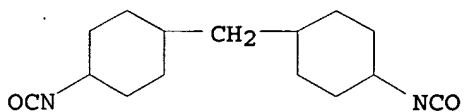
CM 3



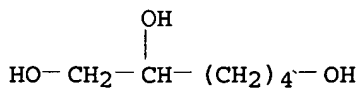
L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN 1,2,6-Hexanetriol, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane]  
and oxirane (9CI)

MF (C15 H22 N2 O2 . C6 H14 O3 . C2 H4 O)x  
CI PMS

CM 1



CM 2



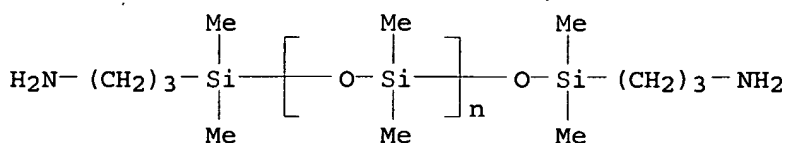
CM 3

Claim 1  
Structure 3

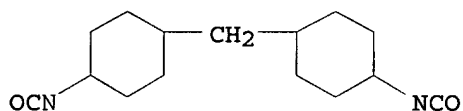


L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Poly[oxy(dimethylsilylene)],  $\alpha$ -[(3-aminopropyl)dimethylsilyl]-  
 $\omega$ -[[[(3-aminopropyl)dimethylsilyl]oxy]-, polymer with  
 1,1'-methylenebis[4-isocyanatocyclohexane] and oxirane, block (9CI)  
 MF (C15 H22 N2 O2 . (C2 H6 O Si)n C10 H28 N2 O Si2 . C2 H4 O)x  
 CI PMS

CM 1



CM 2

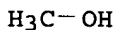


CM 3



L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane], dimethyl  
 ether, triblock (9CI)  
 MF (C15 H22 N2 O2 . C2 H4 O)x . 2 C H4 O

CM 1

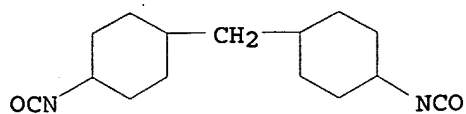


CM 2

CM 3

*Claim 1  
structure 3*



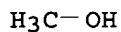


CM 4



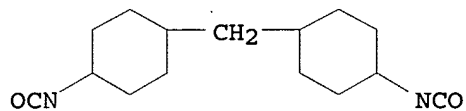
L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane], dimethyl  
 ether, block (9CI)  
 MF (C15 H22 N2 O2 . C2 H4 O)x . 2 C H4 O

CM 1



CM 2

CM 3



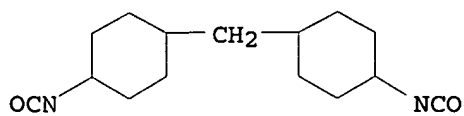
CM 4



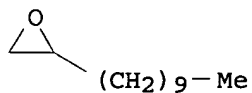
L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, decyl-, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane]  
 and oxirane (9CI)  
 MF (C15 H22 N2 O2 . C12 H24 O . C2 H4 O)x  
 CI PMS

CM 1

*Claim 1*  
*structure 3*



CM 2

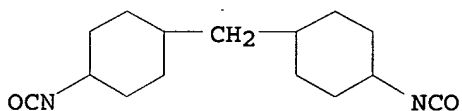


CM 3

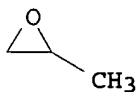


L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, methyl-, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane]  
 and oxirane, block (9CI)  
 MF (C15 H22 N2 O2 . C3 H6 O . C2 H4 O)x  
 CI PMS, COM

CM 1



CM 2



CM 3

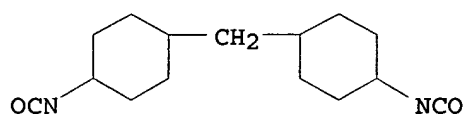


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

Claim 1  
 structure 3

L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Isocyanic acid, methylenedi-4,1-cyclohexylene ester, polymer with ethylene  
 oxide and glycerol (8CI)  
 MF (C15 H22 N2 O2 . C3 H8 O3 . C2 H4 O)x  
 CI PMS

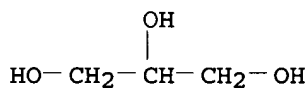
CM 1



CM 2



CM 3

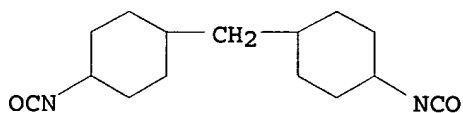


L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, polymer with Hydran HW 970 and 1,1'-methylenebis[4-  
 isocyanatocyclohexane] (9CI)  
 MF (C15 H22 N2 O2 . C2 H4 O . Unspecified)x  
 CI PMS, COM

CM 1

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2



CM 3



*Claim 1*  
*structure 3*

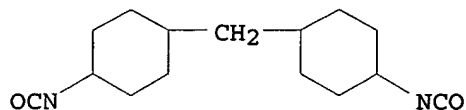
L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and oxirane, block (9CI)

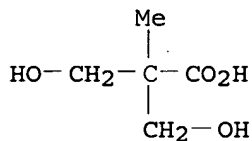
MF (C15 H22 N2 O2 . C5 H10 O4 . C2 H4 O)x

CI PMS

CM 1



CM 2



CM 3



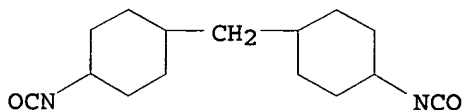
L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 1,4-Butanediol, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and oxirane (9CI)

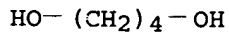
MF (C15 H22 N2 O2 . C4 H10 O2 . C2 H4 O)x

CI PMS

CM 1



CM 2



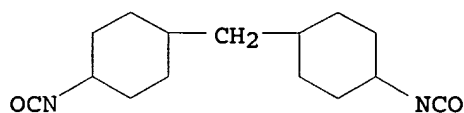
Claim 1  
structure 3

CM 3



L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Furan, tetrahydro-, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and oxirane (9CI)  
 MF (C15 H22 N2 O2 . C4 H8 O . C2 H4 O)x  
 CI PMS

CM 1



CM 2

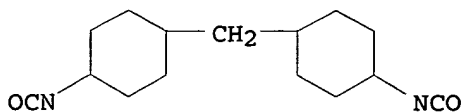


CM 3



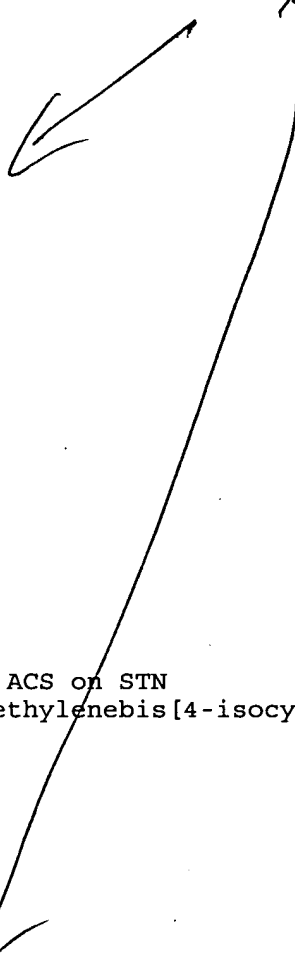
L50 16 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN Oxirane, methyl-, polymer with 1,1'-methylenebis[4-isocyanatocyclohexane] and oxirane (9CI)  
 MF (C15 H22 N2 O2 . C3 H6 O . C2 H4 O)x  
 CI PMS

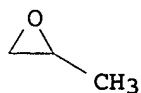
CM 1



CM 2

*Claim 1  
structure 3*





CM 3



ALL ANSWERS HAVE BEEN SCANNED

=> file hcapl

FILE 'HCAPLUS' ENTERED AT 17:39:35 ON 23 SEP 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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FILE COVERS 1907 - 23 Sep 2005 VOL 143 ISS 14

FILE LAST UPDATED: 22 Sep 2005 (20050922/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que

L12	26351	SEA	FILE=REGISTRY	ABB=ON	75-21-8/CRN
L22	4403	SEA	FILE=REGISTRY	ABB=ON	5124-30-1/CRN
L23	309	SEA	FILE=REGISTRY	ABB=ON	L12 AND L22
L24	2	SEA	FILE=REGISTRY	ABB=ON	L23 AND 2/NC
L25	14	SEA	FILE=REGISTRY	ABB=ON	L23 AND 3/NC
L50	16	SEA	FILE=REGISTRY	ABB=ON	L24 OR L25

=> => d qye 149

'QYE' IS NOT A VALID FORMAT FOR FILE 'HCAPLUS'

The following are valid formats:

ABS ----- GI and AB  
 ALL ----- BIB, AB, IND, RE  
 APPS ----- AI, PRAI  
 BIB ----- AN, plus Bibliographic Data and PI table (default)

CAN ----- List of CA abstract numbers without answer numbers  
 CBIB ----- AN, plus Compressed Bibliographic Data  
 DALL ----- ALL, delimited (end of each field identified)  
 DMAX ----- MAX, delimited for post-processing  
 FAM ----- AN, PI and PRAI in table, plus Patent Family data  
 FBIB ----- AN, BIB, plus Patent FAM  
 IND ----- Indexing data  
 IPC ----- International Patent Classifications  
 MAX ----- ALL, plus Patent FAM, RE  
 PATS ----- PI, SO  
 SAM ----- CC, SX, TI, ST, IT  
 SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
 SCAN must be entered on the same line as the DISPLAY,  
 e.g., D SCAN or DISPLAY SCAN)  
 STD ----- BIB, IPC, and NCL  
  
 IABS ----- ABS, indented with text labels  
 IALL ----- ALL, indented with text labels  
 IBIB ----- BIB, indented with text labels  
 IMAX ----- MAX, indented with text labels  
 ISTD ----- STD, indented with text labels  
  
 OBIB ----- AN, plus Bibliographic Data (original)  
 OIBIB ----- OBIB, indented with text labels  
  
 SBIB ----- BIB, no citations  
 SIBIB ----- IBIB, no citations  
  
 HIT ----- Fields containing hit terms  
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
 containing hit terms  
 HITRN ----- HIT RN and its text modification  
 HITSTR ----- HIT RN, its text modification, its CA index name, and  
 its structure diagram  
 HITSEQ ----- HIT RN, its text modification, its CA index name, its  
 structure diagram, plus NTE and SEQ fields  
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
 its structure diagram  
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
 structure diagram, plus NTE and SEQ fields  
 KWIC ----- Hit term plus 20 words on either side  
 OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.  
 ENTER DISPLAY FORMAT (BIB):end

=> d que 149

L10 1 SEA FILE=REGISTRY ABB=ON "POLYETHYLENE GLYCOL"/CN  
 L12 26351 SEA FILE=REGISTRY ABB=ON 75-21-8/CRN  
 L16 20223 SEA FILE=REGISTRY ABB=ON 75-56-9/CRN  
 L17 15988 SEA FILE=REGISTRY ABB=ON L12 AND L16

L18 11 SEA FILE=REGISTRY ABB=ON L17 AND 2/NC  
L19 8 SEA FILE=REGISTRY ABB=ON L18 NOT 1-2/P  
L22 4403 SEA FILE=REGISTRY ABB=ON 5124-30-1/CRN  
L23 309 SEA FILE=REGISTRY ABB=ON L12 AND L22  
L24 2 SEA FILE=REGISTRY ABB=ON L23 AND 2/NC  
L25 14 SEA FILE=REGISTRY ABB=ON L23 AND 3/NC  
L26 102134 SEA FILE=HCAPLUS ABB=ON L10 OR POLYETHYLENEGLYCOL OR PEG  
L27 33 SEA FILE=HCAPLUS ABB=ON L26 AND ?PENETRAT? AND HAIR  
L28 1 SEA FILE=HCAPLUS ABB=ON L27 AND (INHIBIT? OR PREVENT?) (2A) PENE  
TRAT?  
L29 1 SEA FILE=HCAPLUS ABB=ON L27 AND ANTIPENETRA?  
L31 7 SEA FILE=HCAPLUS ABB=ON L27 AND DYE?  
L32 5 SEA FILE=HCAPLUS ABB=ON L27 AND SKIN? (2A) ?PENETRA?  
L33 11 SEA FILE=HCAPLUS ABB=ON L28 OR L29 OR L31 OR L32  
L34 19072 SEA FILE=HCAPLUS ABB=ON L19  
L35 7 SEA FILE=HCAPLUS ABB=ON L34 AND ?PENETRAT? AND HAIR  
L36 6 SEA FILE=HCAPLUS ABB=ON L35 AND (TREAT? OR DYE? OR SKIN OR  
SCALP)  
L39 24 SEA FILE=HCAPLUS ABB=ON L24 OR L25  
L40 0 SEA FILE=HCAPLUS ABB=ON L39 AND ?PENETRAT? AND HAIR  
L41 0 SEA FILE=HCAPLUS ABB=ON L39 AND DYE?  
L42 17 SEA FILE=HCAPLUS ABB=ON L33 OR L36 OR L40 OR L41  
L43 1 SEA FILE=HCAPLUS ABB=ON POLYOXYETHYLENE (5A) HAIR (5A) ?PENETRAT?  
L44 1 SEA FILE=HCAPLUS ABB=ON POLYOXYETHYLENE (5A) DYE? (5A) ?PENETRAT?  
L45 5 SEA FILE=HCAPLUS ABB=ON POLYOXYETHYLENE (L) DYE? (5A) ?PENETRAT?  
L47 2 SEA FILE=HCAPLUS ABB=ON POLYOXYETHYLENE (L) DYE? (L) ?PENETRAT? (5A  
) (SKIN OR SCALP)  
L48 22 SEA FILE=HCAPLUS ABB=ON L42 OR L43 OR L44 OR L45 OR L47  
L49 16 SEA FILE=HCAPLUS ABB=ON L48 AND (COSMETIC?/SC, SX OR COS/RL)

=> d 149 1-16 bib abs ind hitstr

L49 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:589018 HCAPLUS  
DN 141:128475  
TI Reduction of hair growth with compositions containing for  
example  $\alpha$ -difluoromethylornithine  
IN Styczynski, Peter; Passi, Rajeev Kumar; Ahluwalia, Gurpreet S.; Shander,  
Douglas  
PA USA  
SO U.S. Pat. Appl. Publ., 15 pp.  
CODEN: USXXCO  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004141935	A1	20040722	US 2003-347987	20030121
	CA 2501485	AA	20040805	CA 2004-2501485	20040120
	WO 2004064749	A2	20040805	WO 2004-US1420	20040120
	WO 2004064749	A3	20040910		
W:	AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX,				



MZ, MZ, NA, NI  
 BR 2004006394 A 20050809 BR 2004-6394 20040120  
 PRAI US 2003-347987 A 20030121  
 WO 2004-US1420 W 20040120  
 AB **Hair** growth can be reduced by topical application of a composition including an emulsion and a compound that inhibits **hair** growth, e.g., an ornithine decarboxylase inhibitor,  $\alpha$ -difluoromethylornithine (DFMO). The emulsion (1) is prepared using a phase inversion procedure, (2) includes droplets having an average size of from 10 nm to 150 nm, (3) includes droplets sufficiently small that the composition is clear, (4) is in the form of a nanoemulsion, and/or (5) is an oil-in-water emulsion in which the compound that inhibits **hair** growth is dissolved in the water phase and the oil phase includes glyceryl isostearate. For example, a composition contained (by weight) DFMO 1.00%, glycerol 3.00%, Isoceteth-20 4.60%, glyceryl isostearate 2.40%, bis(2-ethylhexyl) carbonate 5.00%, preservative, fragrance and color as needed, and water to 100.00%.  
 IC ICM A61K007-06  
 ICS A61K007-15  
 INCL 424070100  
 CC 62-4 (Essential Oils and **Cosmetics**)  
 Section cross-reference(s): 1  
 ST **hair** growth inhibitor cosmetic emulsion; difluoromethylornithine depilatory cosmetic emulsion  
 IT Fatty acids, biological studies  
 RL: COS (**Cosmetic use**); BIOL (Biological study); USES (Uses)  
 (coco, 2-Ethylexyl esters, oily phase containing; topical compns. for **hair** growth inhibitors)  
 IT Fatty acids, biological studies  
 RL: COS (**Cosmetic use**); BIOL (Biological study); USES (Uses)  
 (coco, C8-C10 derivs.; topical compns. for **hair** growth inhibitors)  
 IT **Cosmetics**  
 (creams; topical compns. for **hair** growth inhibitors)  
 IT **Cosmetics**  
 (depilatories; topical compns. for **hair** growth inhibitors)  
 IT Cyclosiloxanes  
 RL: COS (**Cosmetic use**); BIOL (Biological study); USES (Uses)  
 (di-Me; topical compns. for **hair** growth inhibitors)  
 IT **Cosmetics**  
 (emulsions, nanoemulsions; topical compns. for **hair** growth inhibitors)  
 IT Fatty acids, biological studies  
 RL: COS (**Cosmetic use**); BIOL (Biological study); USES (Uses)  
 (esters, **penetration** enhancer; topical compns. for **hair** growth inhibitors)  
 IT **Hair**  
 (follicle, shrinkage or atrophy of; topical compns. for **hair** growth inhibitors)  
 IT **Hair**  
 (growth, reduction of; topical compns. for **hair** growth inhibitors)  
 IT Surfactants  
 (nonionic, **penetration** enhancer; topical compns. for **hair** growth inhibitors)  
 IT Esters, biological studies  
 RL: COS (**Cosmetic use**); BIOL (Biological study); USES (Uses)  
 (oily phase containing; topical compns. for **hair** growth inhibitors)  
 IT Fatty acids, biological studies

- Hydrocarbon oils  
 Polyoxyalkylenes, biological studies  
 Terpenes, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (penetration enhancer; topical compns. for hair growth inhibitors)
- IT Skin  
 (penetration; topical compns. for hair growth inhibitors)
- IT Biological transport  
 (permeation; topical compns. for hair growth inhibitors)
- IT Angiogenesis inhibitors  
 Emulsifying agents  
 Permeation enhancers  
 (topical compns. for hair growth inhibitors)
- IT Polyoxyalkylenes, biological studies  
 Thiols, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (topical compns. for hair growth inhibitors)
- IT Glycerides, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (tri C8-C10, capricoily phase containing; topical compns. for hair growth inhibitors)
- IT 9024-60-6, Ornithine decarboxylase 9028-35-7, HMG-CoA reductase  
 9029-60-1, Lipooxygenase 39391-18-9, Cyclooxygenase 125978-95-2, NO synthase 141436-78-4, Protein kinase C 141907-41-7, Matrix metalloproteinase  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (inhibitors; topical compns. for hair growth inhibitors)
- IT 65-85-0D, Benzoic acid, C12-15 alkyl esters 110-27-0, Isopropyl myristate 112-10-7, Isopropyl stearate 112-11-8, Isopropyl oleate 123-95-5, n-Butyl stearate 142-91-6, Isopropyl palmitate 629-82-3, Dicaprylyl ether 3687-46-5, Decyl oleate 5333-42-6, 2-Octyldodecanol 17618-45-0, 2-Hexyldecyl stearate 17673-56-2, Oleyl erucate 22766-84-3, 2-Octyldodecyl palmitate 27640-89-7, Erucyl erucate 29806-73-3, 2-Ethylhexyl palmitate 30500-51-7, Isononyl stearate 34316-64-8, n-Hexyl laurate 40550-16-1, Isooctyl stearate 42131-25-9, Isononyl isononanoate 42131-27-1, Isotridecyl isononanoate 52845-07-5, Isoeicosane 61332-02-3, Glyceryl isostearate 81897-25-8, 2-Ethylhexyl isostearate 85617-81-8, Erucyl oleate  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oily phase containing; topical compns. for hair growth inhibitors)
- IT 102-76-1, Triacetin 2687-96-9, 1-Dodecyl-2-pyrrolidone 3687-45-4, Cetiol 4353-06-4, 2-n-Nonyl-1,3-dioxolane 25322-68-3 111109-77-4, Dipropylene glycol dimethyl ether  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (penetration enhancer; topical compns. for hair growth inhibitors)
- IT 50-52-2, Thioridazine 52-53-9, Verapamil 52-67-5, D-Penicillamine 56-81-5, Glycerol, biological studies 60-23-1, Cysteamine 60-54-8, Tetracycline 112-53-8, Lauryl alcohol 117-39-5, Quercetin 117-89-5, Trifluprazine 143-28-2, Oleyl alcohol 147-84-2, Diethyldithiocarbamic acid, biological studies 147-93-3, Thiosalicylic acid 154-23-4D, Catechin, derivs. 471-53-4, Glycyrrhetic acid 490-46-0, Epicatechin 500-38-9, Nordihydroguaiaretic acid 520-36-5, Apigenin 564-25-0, Doxycycline 616-91-1, N-Acetyl-L-cysteine 965-03-7, Benzoyl-L-argininamide 970-74-1, Epigallocatechin 989-51-5, Epigallocatechin gallate 1257-08-5, Epicatechin gallate 1331-43-7, Diethylcyclohexane 2149-70-4 2788-83-2, L-Argininamide 4733-39-5,

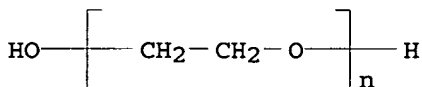
Bathocuproine 6990-06-3, Fusidic acid 10118-90-8, Minocycline 10540-29-1, Tamoxifen 14858-73-2, Bis(2-ethylhexyl) carbonate 15307-86-5, Diclofenac 17035-90-4 22071-15-4, Ketoprofen 22204-53-1, Naproxen 22494-42-4, Diflunisal 24280-93-1, Mycophenolic acid 26171-23-3, Tolmetin 38194-50-2, Sulindac 51481-61-9, Cimetidine 58205-96-2, Polyethylene glycol sorbitan isostearate 66640-93-5, L- $\alpha$ -Difluoromethylornithine 69364-63-2, Isoceteth-20 70052-12-9,  $\alpha$ -Difluoromethylornithine 71902-01-7, Sorbitan isostearate 73573-88-3, Mevastatin 75330-75-5, Lovastatin 75847-73-3, Enalapril 79032-48-7 79902-63-9, Simvastatin 84477-87-2, 1-(5-Isoquinolinylnylsulfonyl)-2-methylpiperazine 93957-54-1, Fluvastatin 134523-00-5, Atorvastatin 352273-98-4, AM 600 352273-99-5, AM 200 372513-52-5, SEPA 390364-19-9, AM 300 390365-97-6, AM 400  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (topical compns. for hair growth inhibitors)

IT 25322-68-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (penetration enhancer; topical compns. for hair growth inhibitors)

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -hydro- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



L49 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:271167 HCAPLUS

DN 140:292209

TI **Antipenetrating hair pretreatment composition**  
 containing an **polyoxyethylene** polymer for limiting the  
**penetration of dyes in skin**

IN Dreher, Frank

PA L'oreal, Fr.

SO Fr. Demande, 54 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2845001	A1	20040402	FR 2002-12032	20020927
	EP 1405627	A1	20040407	EP 2003-292353	20030925
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004231071	A1	20041125	US 2003-671499	20030929
PRAI	FR 2002-12032	A	20020927		
	US 2002-416963P	P	20021009		

OS MARPAT 140:292209

AB A **anti-penetrating hair pretreatment composition** contains an effective quantity of at least an oxyethylene copolymer. The invention also relates to a process to limit the **penetration** of the **dye** in a **hair dye** composition to the skin and/or keratinous fibers, before the coloring of the **hair**. Application of a 10% alc. solution of polyethylene glycol-90 before dying swine ear hair prevented the penetration of the

*application*

dye.

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

ST penetration inhibitor dye hair  
skin polyoxyethylene

IT Flavanols  
Polyoxyalkylenes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(antipenetrating hair pretreatment composition containing  
polyoxyethylene polymer for limiting penetration of  
dyes in skin)

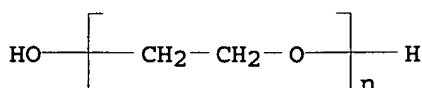
IT Flavones  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hydroxy; antipenetrating hair pretreatment composition  
containing polyoxyethylene polymer for limiting  
penetration of dyes in skin)

IT Intercalation  
(inhibitors; antipenetrating hair pretreatment  
composition containing polyoxyethylene polymer for limiting  
penetration of dyes in skin)

IT Aglycons  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(iridoid; antipenetrating hair pretreatment composition  
containing polyoxyethylene polymer for limiting  
penetration of dyes in skin)

IT 54-96-6, 3,4-Pyridinediamine 59-92-7, 3,4-Dihydroxyphenylalanine,  
biological studies 90-15-3,  $\alpha$ -Naphthol 91-22-5, Quinoline,  
biological studies 95-16-9D, Benzothiazole, derivs. 95-55-6,  
2-Amino-phenol 95-70-5 95-88-5 106-50-3, 1,4-Benzenediamine,  
biological studies 106-51-4, Quinone, biological studies 108-26-9  
108-45-2, 1,3-Benzenediamine, biological studies 108-46-3,  
1,3-Dihydroxybenzene, biological studies 123-30-8, p-Aminophenol  
274-09-9, 1,3-Benzodioxole 399-95-1, 4-Amino-3-fluoro-phenol 533-31-3,  
Sesamol 591-27-5, 3-Aminophenol 608-25-3 615-66-7,  
2-Chloro-p-phenylenediamine 1004-74-6, Pyrimidinetetramine 1004-75-7  
2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2,  
2-Methyl-5-aminophenol 2835-96-3, 4-Amino-2-methyl-phenol 2835-98-5  
2835-99-6, 4-Amino-3-methyl-phenol 3131-52-0, 5,6-Dihydroxyindole  
3240-72-0 3546-50-7, 2,5,6-Triaminopyrimidine 4318-76-7,  
2,5-Diamino-pyridine 4664-16-8 4770-37-0, 6-Hydroxyindoline  
5638-85-7, 1H-Indole-2,3-diol 7218-02-2 7556-37-8 7575-35-1  
16461-98-6, 1H-Pyrazole-3,4-diamine 16867-03-1 17672-22-9 19735-89-8  
22715-34-0, 2-Hydroxy-4,5,6-triaminopyrimidine 25322-68-3,  
Polyethylene glycol 28020-38-4 28900-64-3, 2,3-Dihydroxyphenylalanine  
29785-47-5, 4-Amino-2-methoxymethyl-phenol 30569-52-9 41010-68-8  
43070-85-5, Hydroxycoumarin 45514-38-3 46160-00-3 50322-90-2,  
Hydroxychalcone 52943-88-1 63969-43-7 65308-63-6, Hydroxychromone  
70643-19-5 79352-72-0, 4-Amino-2-aminomethyl-phenol 81892-72-0  
83763-47-7 93841-24-8 93846-05-0 96886-30-5 97902-52-8  
104333-09-7, 4-Amino-2-hydroxymethyl-phenol 110952-46-0 118020-67-0,  
1H-Pyrazole-3,4,5-triamine 128729-30-6 128729-31-7 129697-50-3,  
5-Acetamido-2-amino-phenol 130582-53-5 132026-21-2 132026-22-3  
132026-42-7 135855-34-4 135855-35-5 145441-19-6 155601-17-5  
157469-55-1 168202-61-7, 4-Amino-3-hydroxymethyl-phenol 184172-85-8  
184172-97-2 184172-99-4 184173-00-0 184173-01-1 184173-02-2  
184173-03-3 184173-43-1 184173-45-3 184173-47-5 191731-06-3,  
191731-07-4 191731-08-5 201599-12-4, Pyrazolo[1,5-a]pyrimidine-3,7-  
diamine 201599-15-7 201599-16-8, Pyrazolo[1,5-a]pyrimidine-3,5-diamine  
201599-17-9 201599-18-0 201599-20-4 201599-21-5 201599-23-7  
201599-24-8 201599-25-9 201599-26-0 201599-27-1 221110-58-3

267407-85-2 412029-30-2, 1H-Indole-4,5-diol 412029-31-3,  
 1H-Indole-6,7-diol 412050-23-8, Hydroxyisocoumarin  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (antipenetrating hair pretreatment composition containing  
 polyoxyethylene polymer for limiting penetration of  
 dyes in skin)  
 IT 25322-68-3, Polyethylene glycol  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (antipenetrating hair pretreatment composition containing  
 polyoxyethylene polymer for limiting penetration of  
 dyes in skin)  
 RN 25322-68-3 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -hydro- $\omega$ -hydroxy- (9CI) (CA INDEX  
 NAME)



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:203203 HCAPLUS  
 DN 138:226773  
 TI Composition and method for topical treatment of androgenic  
 alopecia  
 IN Crandall, Wilson Trafton  
 PA USA  
 SO U.S. Pat. Appl. Publ., 4 pp., Cont.-in-part of U.S. Ser. No. 676,095,  
 abandoned.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003049336	A1	20030313	US 2001-928824	20010813
PRAI	US 1995-842P	P	19950703		
	US 1995-5643P	P	19951019		
	US 1996-676095	B2	19960702		

AB A topical composition for treatment of hair loss, especially  
 androgenic alopecia, comprises 0.25-20% of saw palmetto extract which acts as  
 an antiandrogen, combined with 0.1-20% of acetylcarnitine, 0.1-20% of  
 coenzyme Q10, and a penetrating agent, i.e., a lecithin  
 organogel and Poloxamer 407-lecithin organogel. The composition is in the form  
 of a solution, lotion, cream, micelle, spray, gel or roller stick. The  
 formulation promotes a growth of healthier appearing hair, an  
 increase in luster, and a decrease in hair drop and sebum production  
 IC ICM A61K035-78  
 INCL 424727000  
 CC 63-6 (Pharmaceuticals)  
 Section cross-reference(s): 2, 62  
 ST acetylcarnitine coenzyme Q10 saw palmetto androgenic alopecia; lecithin  
 Poloxamer organogel topical hair growth promoter  
 IT Serenoa repens  
 (exts.; topical compns. containing saw palmetto extract, acetylcarnitine, and  
 coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for

treatment of androgenic alopecia)

IT Hair preparations  
(growth stimulants; topical compns. containing saw palmetto extract, acetylcarnitine, and coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for treatment of androgenic alopecia)

IT Alopecia  
(male pattern; topical compns. containing saw palmetto extract, acetylcarnitine, and coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for treatment of androgenic alopecia)

IT Lecithins  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(penetration enhancers; topical compns. containing saw palmetto extract, acetylcarnitine, and coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for treatment of androgenic alopecia)

IT Permeation enhancers  
(topical compns. containing saw palmetto extract, acetylcarnitine, and coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for treatment of androgenic alopecia)

IT Antiandrogens  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(topical compns. containing saw palmetto extract, acetylcarnitine, and coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for treatment of androgenic alopecia)

IT Drug delivery systems  
(topical; topical compns. containing saw palmetto extract, acetylcarnitine, and coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for treatment of androgenic alopecia)

IT 303-98-0, Coenzyme Q10 3040-38-8, L-Acetylcarnitine 106392-12-5, Poloxamer 407  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(topical compns. containing saw palmetto extract, acetylcarnitine, and coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for treatment of androgenic alopecia)

IT 64-17-5, Ethanol, biological studies 110-27-0, Isopropyl myristate 124-06-1, Ethyl myristate 142-91-6, Isopropyl palmitate  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(topical compns. containing saw palmetto extract, acetylcarnitine, and coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for treatment of androgenic alopecia)

IT 106392-12-5, Poloxamer 407  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(topical compns. containing saw palmetto extract, acetylcarnitine, and coenzyme Q10 in lecithin or Poloxamer 407-lecithin organogel for treatment of androgenic alopecia)

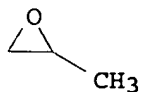
RN 106392-12-5 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, block (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



L49 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:117634 HCAPLUS  
 DN 138:158839  
 TI Dermal therapy with phosphate derivatives of electron transfer agents  
 IN West, Simon Michael; Kannar, David; Verdicchio, Robert; Mills, Otto H., Jr.  
 PA Vital Health Sciences Pty. Ltd., Australia  
 SO PCT Int. Appl., 71 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003011303	A1	20030213	WO 2002-AU1003	20020726
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2453823	AA	20030213	CA 2002-2453823	20020726
EP 1420797	A1	20040526	EP 2002-744952	20020726
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002011673	A	20040713	BR 2002-11673	20020726
CN 1547475	A	20041117	CN 2002-814818	20020726
JP 2004538308	T2	20041224	JP 2003-516533	20020726
US 2004253318	A1	20041216	US 2004-485196	20040805
PRAI US 2001-308496P	P	20010727		
US 2001-308506P	P	20010727		
WO 2002-AU1003	W	20020726		

OS MARPAT 138:158839

AB There is provided a method for preventing, alleviating symptoms or treating a skin condition comprising topically administering to the skin of a subject a cosmetic or pharmaceutical topical formulation comprising an effective **skin-penetrating** amount of 1 or more phosphate derivs. of electron transfer agents. A protective spray for hair and skin for use in the method of treatment or prevention of erythema and inflammation associated with dandruff was prepared as follows: Uvinol MS-40 2.00, Masil SF-19 1.00, DL-panthenol 2.00, lauryliminodipropionic acid tocopheryl phosphate 3.00, PEG-40

castor oil 0.50, citric acid and preservative and fragrance qs, and EtOH-H2O (1:1) to 100%.

IC ICM A61K031-665  
ICS A61K031-661; A61P017-00

CC 63-6 (Pharmaceuticals)  
Section cross-reference(s): 62

ST dermal therapy electron transfer agent phosphate deriv; tocopheryl phosphate dermal therapy electron transfer; cosmetic electron transfer agent phosphate deriv

IT Alcohols, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(C16-18, ethoxylated; dermal therapy with phosphate derivs. of electron transfer agents)

IT Alcohols, biological studies  
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(C16-18; dermal therapy with phosphate derivs. of electron transfer agents)

IT Skin, disease  
(aging; dermal therapy with phosphate derivs. of electron transfer agents)

IT Shampoos  
(antidandruff; dermal therapy with phosphate derivs. of electron transfer agents)

IT Hair preparations  
(conditioners; dermal therapy with phosphate derivs. of electron transfer agents)

IT Cosmetics  
(creams; dermal therapy with phosphate derivs. of electron transfer agents)

IT Acne  
Anti-inflammatory agents  
Antibiotics  
Antihistamines  
Burn  
Cosmetics  
Dandruff  
Dentifrices  
Dermatitis  
Disinfectants  
Eczema  
Electron exchangers  
Erythema  
Human  
Human  
Preservatives  
Psoriasis  
Seborrhea  
Shampoos  
Skin, disease  
Sunburn  
Sunscreens  
Wart  
Wound healing  
(dermal therapy with phosphate derivs. of electron transfer agents)

IT Zea mays  
(disease; dermal therapy with phosphate derivs. of electron transfer agents)

IT Tocopherols



RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (esters, phosphates; dermal therapy with phosphate derivs. of electron transfer agents)

IT Drug delivery systems  
 (gels, topical; dermal therapy with phosphate derivs. of electron transfer agents)

IT Gingiva, disease  
 Inflammation  
 (gingivitis; dermal therapy with phosphate derivs. of electron transfer agents)

IT Carotenes, biological studies  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (hydroxy; dermal therapy with phosphate derivs. of electron transfer agents)

IT Cosmetics  
 Drug delivery systems  
 (lotions; dermal therapy with phosphate derivs. of electron transfer agents)

IT Drug delivery systems  
 (ointments, creams; dermal therapy with phosphate derivs. of electron transfer agents)

IT Ubiquinones  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (reduced; dermal therapy with phosphate derivs. of electron transfer agents)

IT Skin, disease  
 (rosacea; dermal therapy with phosphate derivs. of electron transfer agents)

IT Drug delivery systems  
 (topical; dermal therapy with phosphate derivs. of electron transfer agents)

IT 50-14-6, Calciferol 50-81-7, Ascorbic acid, biological studies  
 56-81-5, Glycerin, biological studies 57-55-6, Propylene glycol, biological studies 60-54-8, Tetracycline 68-26-8, Retinol 68-26-8D, Vitamin A, derivs. 69-72-7, Salicylic acid, biological studies 71-00-1D, Histidine, complex with tocotrienol phosphate 94-13-3, Propylparaben 99-76-3, Methylparaben 102-71-6, Triethanolamine, biological studies 110-27-0, Pelemol IPM 114-07-8, Erythromycin 150-38-9, EDTA trisodium salt 154-21-2, Lincomycin 302-79-4, Retinoic acid 9006-65-9, Dimethicone 11111-12-9, Cephalosporin 17673-56-2, Cetiol J-600 25496-72-4, Emerest 2400 53859-19-1, Retinyl phosphate 59130-69-7, Pelemol 168 78491-02-8, Diazolidinylurea 84517-95-3, Germaben II 94247-28-6, Pelemol ICB 125913-31-7, Ascorbyl phosphate 128808-26-4, Sodium ascorbyl phosphate 195739-91-4, Carbopol ultrez 10 496065-00-0 496065-01-1D, complex with histidine 496801-76-4 496810-79-8 496842-66-1, Phoenoxol T  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (dermal therapy with phosphate derivs. of electron transfer agents)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:117558 HCAPLUS  
 DN 138:158529  
 TI Agents for hair activation and bleaching and dyeing and conditioning

IN Mogilevich, Irina M.  
 PA Pragmatic Vision International, LLC, USA  
 SO PCT Int. Appl., 55 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003011216	A2	20030213	WO 2002-US23822	20020725
	WO 2003011216	A3	20031023		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP	1420746	A2	20040526	EP 2002-761180	20020725
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP	2005500341	T2	20050106	JP 2003-516448	20020725
US	2004151679	A1	20040805	US 2004-763000	20040122
PRAI	US 2001-308701P	P	20010730		
	US 2001-344860P	P	20011107		
	WO 2002-US23822	W	20020725		

AB The invention is related to cosmetol., or, more exactly, to agents for **hair** activation, **hair** bleaching, **hair** coloring and **hair** conditioning. The invention may found application in the manufacture of cosmetic agents, in cosmetol., in hairdressing and for bleaching and coloring of any type of keratin-containing fibers, for example, eyelashes, natural wool, fur and plumes. The claimed group of inventions is based on the use of perfluoro-organic compds. as solvent for melanin. Emulsions containing perfluoro-organic compds. of the "oil-in-water" type (direct emulsion) and "water-in-oil" type (reverse emulsions) represent the compns. for **treating** keratin-containing fibers. Emulsions are stabilized by surfactants and contain dispersed particles of specified size, which fact makes it possible for them to **penetrate** inside a **hair**. Compns. for **hair** bleaching and coloring addnl. include a bleaching or **dyeing** agent. The compns. are nontoxic and cause no damage to **hair**. After a period of 10-20 min the compns. produce intensive coloring of keratin-containing fibers that is preserved for a long period of time. The composition was prepared as follows: 1 part of egg lecithin in the form of 2.2% aqueous colloid solution was diluted with water (74.530 parts by mass) and then 14.5 parts by mass of perfluorodecalin (PFOC) were added. Direct aqueous emulsion of perfluorodecalin was produced in an ultrasonic disperser. Then produced emulsion was applied on a strand of **hair** of Black-2 color and the **hair** were subjected to the action of the emulsion for a period of 30 min at a temperature of 40°. Then the **hair** were rinsed with water and dried. The **hair** in the strand acquired more vivid appearance and dark (darker by 0.5 shade) color as compared to initial appearance and color. The **hair** remained elastic and silky.

IC ICM A61K  
 CC 62-3 (Essential Oils and Cosmetics)  
 ST **hair** activation agent; bleaching **hair** agent;

conditioning hair agent

IT Emulsifying agents

Hair preparations

Human

Oxidizing agents

Stabilizing agents

Surfactants

Thickening agents

(agents for hair activation and bleaching and dyeing and conditioning)

IT Perfluoro compounds

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(alcs., solvent for melanin in hair fibers; agents for hair activation and bleaching and dyeing and conditioning)

IT Hair preparations

(bleaches; agents for hair activation and bleaching and dyeing and conditioning)

IT Reducing agents

(bleaching agents; agents for hair activation and bleaching and dyeing and conditioning)

IT Hair preparations

(conditioners; agents for hair activation and bleaching and dyeing and conditioning)

IT Group VIA element compounds

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(dithionites, reducing agents; agents for hair activation and bleaching and dyeing and conditioning)

IT Hair preparations

(dyes; agents for hair activation and bleaching and dyeing and conditioning)

IT Lecithins

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(egg yolk; agents for hair activation and bleaching and dyeing and conditioning)

IT Lawsonia inermis

(hair dye; agents for hair activation and bleaching and dyeing and conditioning)

IT Perfluoro compounds

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(ketones, solvent for melanin in hair fibers; agents for hair activation and bleaching and dyeing and conditioning)

IT Perchlorates

Peroxysulfates

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidant; agents for hair activation and bleaching and dyeing and conditioning)

IT Amines, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(pH regulators; agents for hair activation and bleaching and dyeing and conditioning)

IT Group IIIA element compounds

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(perborates, oxidant; agents for hair activation and bleaching and dyeing and conditioning)

IT Alcohols, biological studies

Ketones, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(perfluoro, solvent for melanin in hair fibers; agents for

hair activation and bleaching and dyeing and conditioning)

IT Halogen compounds  
Per compounds  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(periodates, oxidant; agents for hair activation and bleaching and dyeing and conditioning)

IT Sulfites  
Thiols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(reducing agents; agents for hair activation and bleaching and dyeing and conditioning)

IT Perfluoro compounds  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(solvent for melanin in hair fibers; agents for hair activation and bleaching and dyeing and conditioning)

IT Phospholipids, biological studies  
Polymers, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(surfactants; agents for hair activation and bleaching and dyeing and conditioning)

IT Carboxylic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(thiocarboxylic, reducing agents; agents for hair activation and bleaching and dyeing and conditioning)

IT 7722-84-1, Hydrogen peroxide, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(oxidant; agents for hair activation and bleaching and dyeing and conditioning)

IT 121-44-8, Triethylamine, biological studies 141-43-5, Monoethanolamine, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(pH regulator; agents for hair activation and bleaching and dyeing and conditioning)

IT 7664-41-7, Ammonia, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(pH regulators; agents for hair activation and bleaching and dyeing and conditioning)

IT 144-62-7, Oxalic acid, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(reducing agent; agents for hair activation and bleaching and dyeing and conditioning)

IT 124-73-2, 1,2-Dibromotetrafluoroethane 306-94-5, Perfluorodecalin  
338-83-0, Tris(perfluoropropyl)amine 378-33-6,  
Perfluorodimethylcyclohexylamine 812-58-8 25038-02-2  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(solvent for melanin in hair fibers; agents for hair activation and bleaching and dyeing and conditioning)

IT 9003-11-6, Proxanol 9004-67-5, Methyl cellulose 25154-86-3,  
Thymaxol 70755-50-9, Chromoxane  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(surfactant; agents for hair activation and bleaching and dyeing and conditioning)

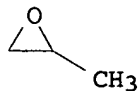
IT 9003-11-6, Proxanol  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(surfactant; agents for hair activation and bleaching and dyeing and conditioning)

RN 9003-11-6 HCAPLUS  
CN Oxirane, methyl-, polymer with oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



L49 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:808023 HCAPLUS

DN 137:299543

TI Oxidative hair dyes containing oat proteins

IN Cho, Bong Rim; Shin, Kyong Ah

PA Dong Sung Pharmaceutical Co., Ltd., S. Korea

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002308746	A2	20021023	JP 2001-107599	20010405
PRAI	JP 2001-107599		20010405		

AB This invention relates to hair dye preps. comprising oat protein exts. to promote **dye penetration**. The hair preps. further comprise fatty alcs., such as stearyl alc., cetyl alc., and oleyl alc. or fatty acids, such as oleic acid, and surfactants such as **polyoxyethylene** cetyl ether and sodium **polyoxyethylene** lauryl ether sulfate. The preps. comprise oxidative dye intermediates which include p-aminophenol, p-amino-o-cresol, o-aminophenol, resorcin, and toluene 2,5-diamine sulfate.

IC ICM A61K007-13

ICS D06P003-08

CC 62-3 (Essential Oils and Cosmetics)

ST oxidative hair dye oat protein

IT Hair preparations

(dyes, oxidative; oxidative hair dyes containing oat proteins and fatty alcs. or fatty acids and surfactants)

IT Avena sativa

(exts.; oxidative hair dyes containing oat proteins and fatty alcs. or fatty acids and surfactants)

IT Alcohols, biological studies

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(fatty; oxidative hair dyes containing oat proteins and fatty alcs. or fatty acids and surfactants)

IT Proteins  
 RL: COS (Cosmetic use); NPO (Natural product occurrence); BIOL (Biological study); OCCU (Occurrence); USES (Uses)  
 (from oat; oxidative hair dyes containing oat proteins and fatty alcs. or fatty acids and surfactants)

IT Fatty acids, biological studies  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative hair dyes containing oat proteins and fatty alcs. or fatty acids and surfactants)

IT 95-55-6, o-Aminophenol 108-46-3, Resorcin, biological studies  
 112-80-1, Oleic acid, biological studies 112-92-5, Stearyl alcohol  
 123-30-8, p-Aminophenol 143-28-2, Oleyl alcohol 2835-96-3,  
 p-Amino-o-cresol 6369-59-1, Toluene 2,5-diamine sulfate 9004-82-4,  
 Sodium polyoxyethylene lauryl ether sulfate 9004-95-9, Polyoxyethylene cetyl ether 36653-82-4, Cetyl alcohol  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (oxidative hair dyes containing oat proteins and fatty alcs. or fatty acids and surfactants)

L49 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:157541 HCAPLUS

DN 136:189120

TI Use of di-sugar alcohol phosphates in cosmetic and dermatological formulations

IN Schwarz, Thomas

PA Bitop Gesellschaft fuer Biotechnische Optimierung m.b.H., Germany

SO PCT Int. Appl., 47 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002015868	A2	20020228	WO 2001-EP9446	20010816
	WO 2002015868	A3	20020718		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10040932	A1	20020307	DE 2000-10040932	20000818
	DE 10055706	A1	20020307	DE 2000-10055706	20000822
	AU 2001095469	A5	20020304	AU 2001-95469	20010816
	EP 1311238	A2	20030521	EP 2001-976087	20010816
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004506676	T2	20040304	JP 2002-520778	20010816
	US 2004028631	A1	20040212	US 2003-344970	20030606
PRAI	DE 2000-10040932	A	20000818		
	DE 2000-10055706	A	20000822		
	WO 2001-EP9446	W	20010816		

AB The invention relates to the incorporation of di-sugar alc. phosphates of C3 to C6 sugar alcs. and/or derivs. of said compds., e.g. acids, salts, or esters, into cosmetic or dermatol. formulations for protecting the skin against environmental influences. The inventive low-mol. compds. of this type take part in the active cell protection of the cells' own

free-radical scavengers, antioxidants, DNA, cell membranes and other cell compartments, protecting them against harmful environmental influences, e.g. UV radiation, IR radiation and environmental stress (thermal, chemical and phys.). The compatible solution can act as a co-solvent and intensify the **penetration** of other active ingredients added to the cosmetic formulation, not only to stabilize said ingredients in the formulation, but also to actively transport them into deeper dermal layers. Thus a composition contained (weight/weight%): paraffin oil 8.00; isopropylpalmitate 3.00; petrolatum 4.00; cetylstearyl alc. 2.00; PEG 40-castor oil 0.50; sodium cetylstearyl sulfate 0.50; sodium carbomer 0.40; diinositol phosphate 0.50; glycerin 3.00; -tocopherol 0.20; octylmethoxycinnamate 5.00; butylmethoxydibenzoyl methane 1.00; preservatives, **dyes**, perfume q.s.; water to 100.

IC ICM A61K007-48

CC 62-4 (Essential Oils and **Cosmetics**)

Section cross-reference(s): 63

ST disaccharide alc phosphate deriv cosmetics dermatol skin protection

IT Cosmetics

(creams; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Cosmetics

(eye liners; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Cosmetics

(gels; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Cosmetics

(lipsticks; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Cosmetics

Drug delivery systems

(lotions; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Cosmetics

(makeups; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Emulsions

(oil-in-water; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Drug delivery systems

(ointments, creams; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Drug delivery systems

(solns.; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Drug delivery systems

(suspensions; use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Antioxidants

**Hair** preparations

Radical scavengers

Skin

Solvents

Stabilizing agents

Sunscreens

(use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT Enzymes, biological studies

Vitamins

RL: COS (**Cosmetic use**); THU (Therapeutic use); BIOL (Biological

study); USES (Uses)

(use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

IT 59-02-9,  $\alpha$ -Tocopherol 143491-08-1, myo-Inositol, 1,1'-(hydrogen phosphate) 367487-39-6, 1,1-Diglycerin phosphate

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of di-sugar alc. phosphates in cosmetic and dermatol. formulations)

L49 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:157540 HCAPLUS

DN 136:205192

TI Use of beta-mannosyl glycerate and derivatives in cosmetic and dermatological formulations

IN Schwarz, Thomas

PA Bitop Gesellschaft fuer Biotechnische Optimierung m.b.H., Germany

SO PCT Int. Appl., 34 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2002015867	A1	20020228	WO 2001-EP9445	20010816	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	DE 10040933	A1	20020307	DE 2000-10040933	20000818	
	AU 2001089806	A5	20020304	AU 2001-89806	20010816	
	EP 1311236	A1	20030521	EP 2001-969596	20010816	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
	JP 2004506675	T2	20040304	JP 2002-520777	20010816	
	US 2005100534	A1	20050512	US 2003-344971	20010816	
PRAI	DE 2000-10040933	A	20000818			
	WO 2001-EP9445	W	20010816			

AB The invention relates to the incorporation of the low-mol. substance (compatible solute) sz-mannosyl glycerate (firoin) extracted from extremophilic micro-organisms and/or of derivs. of this compound, e.g. an acid, a salt or ester, in particular, also of the sz-mannosylglyceramide (firoin-A) in cosmetic or dermatol. formulations for protecting skin from environmental influences and for improving the regenerability of the skin. Firoins (sz-mannosyl glycerate and sz-mannosylglyceramide) are, according to the invention, involved in the active cell protection of the cell-specific free-radical scavengers, of the proteins, of the antioxidants, of the DNA, of the cell membranes and of other cell constituents by virtue of the fact that they protect (thermally, chemical and phys.) these against damaging environmental influences, e.g. UV radiation, IR radiation and environmental stress. For other active substances added to the cosmetic formulation, firoins can serve as co-solvents and **penetration** intensifiers in order to not only stabilize these in the cosmetic formulation but also to actively transport them into deeper skin layers. Thus a composition contained (weight/weight%):



paraffin oil 8.00; isopropylpalmitate 3.00; petrolatum 4.00; cetylstearyl alc. 2.00; PEG 40-castor oil 0.50; sodium cetylstearyl sulfate 0.50; sodium carbomer 0.40; firoid 0.50; glycerin 3.00;  $\alpha$ -tocopherol 0.20; octylmethoxycinnamate 5.00; butylmethoxydibenzoyl methane 1.00; preservatives, dyes, perfume q.s.; water to 100.

ICM A61K007-48

ICS A61K031-70; A61P017-00

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

ST beta mannosyl glycerate deriv cosmetics dermatol skin protection

IT Cosmetics

(creams; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

(eye liners; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

(gels; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

(lipsticks; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

Drug delivery systems

(lotions; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

(makeups; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Emulsions

(oil-in-water; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Drug delivery systems

(ointments, creams; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Drug delivery systems

(solns.; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Drug delivery systems

(suspensions; use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Antioxidants

Hair preparations

Radical scavengers

Skin

Solvents

Stabilizing agents

Sunscreens

(use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT Enzymes, biological studies

Vitamins

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

IT 59-02-9,  $\alpha$ -Tocopherol 164324-35-0, Firoid 240417-63-4, Firoid A

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of beta-mannosyl glycerate and derivs. in cosmetic and dermatol. formulations)

formulations)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:157539 HCAPLUS

DN 136:205191

TI Use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivatives in cosmetic and dermatological formulations

IN Schwarz, Thomas

PA Bitop Gesellschaft fuer Biotechnische Optimierung m.b.H., Germany

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

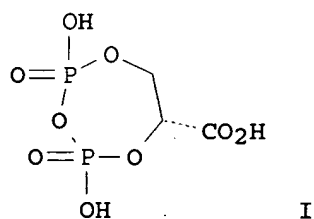
DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002015866	A2	20020228	WO 2001-EP9443	20010816
	WO 2002015866	A3	20020606		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10040931	A1	20020307	DE 2000-10040931	20000818
	AU 2001095468	A5	20020304	AU 2001-95468	20010816
	EP 1311237	A2	20030521	EP 2001-976086	20010816
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004506674	T2	20040304	JP 2002-520776	20010816
	US 2004097543	A1	20040520	US 2003-344969	20030606
PRAI	DE 2000-10040931	A	20000818		
	WO 2001-EP9443	W	20010816		

GI



AB The invention relates to the inclusion of the low mol. weight substance (compatible solute), cyclic 2,4-diphosphoglycerate (cDGP) (I), from extremophilic micro-organisms and/or derivs. of said compound, for example, an acid, a salt, or an ester, in cosmetic or dermatol. formulations for protection of the skin from environmental influences and to increase the regeneration capacity. According to the invention, cyclic 2,4-diphosphoglycerate is implicated in active cell protection of the endogenous cell radical traps, antioxidants, the DNA, cell membranes and

further cell compartments, by means of a protective effect of the above, against damaging environmental effects, for example, UV radiation, IR radiation, and environmental stress (thermal, chemical and phys.). The compatible solute may serve as co-solvent and **penetration** improver for other active ingredients added to the cosmetic formulation, in order to not only stabilize the above in the cosmetic formulation, but also for active transport into deeper skin layers. Thus a composition contained (weight/weight%): paraffin oil 8.00; isopropylpalmitate 3.00; petrolatum 4.00; cetylstearyl alc. 2.00; PEG 40-castor oil 0.50; sodium cetylstearyl sulfate 0.50; sodium carbomer 0.40; cyclic diphosphoglycerate 0.50; glycerin 3.00;  $\alpha$ -tocopherol 0.20; octylmethoxycinnamate 5.00; butylmethoxydibenzoyl methane 1.00; preservatives, **dyes**, perfume q.s.; water to 100.

IC ICM A61K007-48

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

ST cyclic diphosphoglycerate cDGP deriv cosmetics skin protection dermatol

IT Cosmetics

(creams; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

(eye liners; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

(gels; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

(lipsticks; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

Drug delivery systems

(lotions; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Cosmetics

(makeups; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Emulsions

(oil-in-water; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Drug delivery systems

(ointments, creams; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Drug delivery systems

(solns.; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Drug delivery systems

(suspensions; use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Antioxidants

**Hair preparations**

Radical scavengers

Skin

Stabilizing agents

Sunscreens

(use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT Enzymes, biological studies

Vitamins

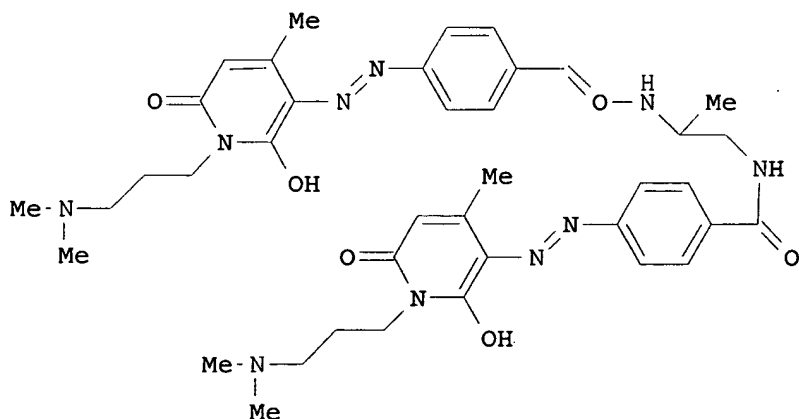
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

IT 59-02-9,  $\alpha$ -Tocopherol 88280-54-0 88280-54-0D, derivs.  
 RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (use of cyclic 2,4-diphosphoglycerate (cDGP) and its derivs. in cosmetic and dermatol. formulations)

L49 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2001:868164 HCAPLUS  
 DN 136:10882  
 TI Coloring and tinting agents for keratin fibers  
 IN Geiwiz, Juergen; Henning, Torsten; Lehr, Friedrich; Pedrazzi, Reinhard; Schoefberger, Georg  
 PA Clariant International Ltd., Switz.; Clariant Finance (BVI) Limited  
 SO PCT Int. Appl., 26 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001089461	A1	20011129	WO 2001-IB887	20010522
	W: IN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	EP 1289480	A1	20030312	EP 2001-929912	20010522
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	JP 2003534259	T2	20031118	JP 2001-585707	20010522
	US 2003182733	A1	20031002	US 2002-296274	20021122
PRAI	CH 2000-1039	A	20000524		
	WO 2001-IB887	W	20010522		
OS	MARPAT 136:10882				
GI					



I

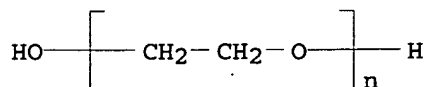
AB The present invention relates to the use of direct dyes or mixts. thereof for the coloring and tinting of keratin fibers, in particular of human hair. A composition comprises 0.01-10 parts of a dye mixture, 0.5-10 parts of surface-active substances, 0-5 parts of thickeners, 0.5-40 parts of solubilizing agents, 0-80 parts of organic

solvents, and 5-50 parts of water. The composition further comprises gel-forming substances, antioxidants, **penetration** agents, sequestering agents, buffers, perfumes, light protection agents, preservatives, and **hair-cleansing** prepns. For example, a coloring shampoo contained 0.5 g I, 5 g Cremophor EL, 0.5 g perfume, 60 g isopropanol, and 38.5 g water.

IC ICM A61K007-13  
CC 62-3 (Essential Oils and **Cosmetics**)  
ST **hair dye** surfactant thickener solubilizer  
IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(Lutrol; **hair dye** prepns. containing surfactants, thickeners, and solubilizing agents)  
IT Shampoos  
(coloring; **hair dye** prepns. containing surfactants, thickeners, and solubilizing agents)  
IT **Hair** preparations  
(**dyes**; **hair dye** prepns. containing surfactants, thickeners, and solubilizing agents)  
IT Castor oil  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(ethoxylated, Cremophor EL; **hair dye** prepns. containing surfactants, thickeners, and solubilizing agents)  
IT Antioxidants  
Buffers  
Gelation agents  
Perfumes  
Permeation enhancers  
Preservatives  
Sequestering agents  
Solubilizers  
Sunscreens  
Surfactants  
Thickening agents  
(**hair dye** prepns. containing surfactants, thickeners, and solubilizing agents)  
IT Solvents  
(organic; **hair dye** prepns. containing surfactants, thickeners, and solubilizing agents)  
IT 25322-68-3, Polyethylene glycol  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(Lutrol; **hair dye** prepns. containing surfactants, thickeners, and solubilizing agents)  
IT 7631-86-9, Aerosil, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(colloidal; **hair dye** prepns. containing surfactants, thickeners, and solubilizing agents)  
IT 67-63-0, Isopropanol, biological studies 13463-67-7, Titanium oxide, biological studies 145682-91-3  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(**hair dye** prepns. containing surfactants, thickeners, and solubilizing agents)  
IT 25322-68-3, Polyethylene glycol  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(Lutrol; hair dye prepns. containing surfactants,  
thickeners, and solubilizing agents)

RN 25322-68-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -hydro- $\omega$ -hydroxy- (9CI) (CA INDEX  
NAME)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:587223 HCAPLUS

DN 135:170476

TI Compositions containing cationic and nonionic surfactants for hair  
treatment agents

IN Ota, Toshio; Aga, Michihiro; Watanabe, Katsuhiko

PA Sanei Kagaku Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001220329	A2	20010814	JP 2001-99821	20010330
	US 2003103925	A1	20030605	US 2002-106361	20020327
	US 6835375	B2	20041228		
	US 2005095214	A1	20050505	US 2004-998928	20041130
PRAI	JP 2001-99821	A	20010330		
	JP 2001-99824	A	20010330		
	US 2002-106361	A1	20020327		

AB The compns., for hair conditioners, wave-setting prepns.,  
hair-styling prepns., and thickening agents, contain cationic and  
nonionic surfactants. A hair wave-setting preparation containing  
lauryltrimethylammonium chloride, cetyltrimethylammonium chloride,  
polyoxyethylene oleyl ether, polyoxyethylene lanolin, lanolin, paraffin  
oil, etc. showed hair-conditioning effect and good  
penetration into hair.

IC ICM A61K007-09

ICS A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

ST hair wave setting cationic nonionic surfactant; conditioner  
styling hair cationic nonionic surfactant; quaternary ammonium  
surfactant hair wave setting; thickener hair  
conditioner cationic nonionic surfactant

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(Me Ph, polyoxyethylene-; hair-conditioning and wave-setting  
compns. containing cationic and nonionic surfactants and)

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(Me, polyoxyethylene-; hair-conditioning and wave-setting  
compns. containing cationic and nonionic surfactants and)

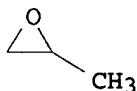
- IT Surfactants  
(amphoteric; hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants and)
- IT Surfactants  
(cationic; hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)
- IT Hair preparations  
(conditioners, styling; hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)
- IT Hair preparations  
(conditioners; hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(derivs.; hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)
- IT Castor oil  
Lanolin  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(ethoxylated; hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)
- IT Thickening agents  
(hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)
- IT Quaternary ammonium compounds, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)
- IT Antibacterial agents  
Sequestering agents  
(hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants and)
- IT Acids, biological studies  
Bases, biological studies  
Esters, biological studies  
Fats and Glyceridic oils, biological studies  
Hydrocarbons, biological studies  
Lanolin  
Paraffin oils  
Polymers, biological studies  
Polyoxyalkylenes, biological studies  
Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants and)
- IT Fatty acids, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(lanolin, quaternary ammonium derivs.; hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)
- IT Surfactants  
(nonionic; hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)
- IT Hair preparations  
(permanent wave; hair-conditioning and wave-setting compns. containing cationic and nonionic surfactants)

- IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polyoxyalkylene-; hair-conditioning and wave-setting compns.  
containing cationic and nonionic surfactants and)
- IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(polysiloxane-; hair-conditioning and wave-setting compns.  
containing cationic and nonionic surfactants and)
- IT 64-67-5D, Ethyl sulfate, quaternary ammonium salts 112-00-5,  
Lauryltrimethylammonium chloride 112-02-7, Cetyltrimethylammonium  
chloride 112-03-8, Stearyltrimethylammonium chloride 120-40-1, Lauric  
acid diethanolamide 598-56-1D, lanolin fatty acid derivs., Et sulfates  
1119-94-4, Lauryltrimethylammonium bromide 1338-39-2, Sorbitan  
monolaurate 2478-29-7 9002-92-0, Polyoxyethylene lauryl ether  
9003-11-6D, Ethylene oxide-propylene oxide copolymer, lanolin  
derivs. 9004-81-3, Polyethylene glycol monolaurate 9004-95-9,  
Polyoxyethylene cetyl ether 9004-98-2, Polyoxyethylene oleyl ether  
9016-45-9, Polyoxyethylene nonylphenyl ether 25322-68-3D, Polyethylene  
glycol, derivs. 26266-58-0, Sorbitan trioleate 28880-55-9  
57107-97-8, Polyoxyethylene glyceryl oleate  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair-conditioning and wave-setting compns. containing cationic  
and nonionic surfactants)
- IT 110-44-1, Sorbic acid 122-99-6, Phenoxyethanol 139-33-3, Disodium  
edetate 683-10-3, Betaine lauryldimethylaminoacetate 1310-73-2, Sodium  
hydroxide, biological studies 2809-21-4, Hydroxyethanediphosphonic acid  
7558-79-4, Sodium monohydrogen phosphate 7664-38-2, Phosphoric acid,  
biological studies 9005-08-7, Polyethylene glycol distearate  
25322-68-3, Polyethylene glycol  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair-conditioning and wave-setting compns. containing cationic  
and nonionic surfactants)
- IT 9003-11-6D, Ethylene oxide-propylene oxide copolymer, lanolin  
derivs.  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(hair-conditioning and wave-setting compns. containing cationic  
and nonionic surfactants)
- RN 9003-11-6 HCAPLUS  
CN Oxirane, methyl-, polymer with oxirane (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8



CMF C2 H4 O



L49 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:666572 HCAPLUS

DN 133:256561

TI Use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals

IN Kropf, Christian; Griesbach, Ute; Fabry, Bernd; Engstad, Rolf E.

PA Cognis Deutschland G.m.b.H., Germany; Biotec Asa

SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000054741	A1	20000921	WO 2000-EP1829	20000303
	W: AU, CA, CN, JP, KR, NZ, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	DE 19911058	A1	20000921	DE 1999-19911058	19990312
	DE 19911058	B4	20040930		
	CA 2367875	AA	20000921	CA 2000-2367875	20000303
	EP 1165037	A1	20020102	EP 2000-916895	20000303
	EP 1165037	B1	20050112		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002539147	T2	20021119	JP 2000-604819	20000303
	AU 775786	B2	20040812	AU 2000-38084	20000303
	AT 286713	E	20050115	AT 2000-916895	20000303
	ES 2231176	T3	20050516	ES 2000-916895	20000303
	US 6858214	B1	20050222	US 2002-936747	20020215
PRAI	DE 1999-19911058	A	19990312		
	WO 2000-EP1829	W	20000303		

AB The invention relates to the use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans, which are essentially free from (1 $\rightarrow$ 6) links and have particle diams. ranging from 10 to 300 nm for producing cosmetic and/or pharmaceutical preps. When applied topically, the especially fine dispersion of the particles compared to prior art glucans facilitates their rapid **penetration** of both the stratum corneum of the skin and the keratin fibers of the hair.

IC ICM A61K007-48

ICS A61K007-42

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 63

ST nanoscale beta glucan **skin penetration hair**

IT Drug delivery systems

(nanoparticles; use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)

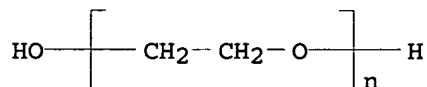
IT Polyoxyalkylenes, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(protective colloid; use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-

- glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)
- IT Colloids  
(protective; use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)
- IT Cosmetics  
Drug delivery systems  
Hair preparations  
Sunscreens  
(use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)
- IT Saccharomyces  
Trichoderma harzianum  
( $\beta$ -(1 $\rightarrow$ 3)-glucans of; use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)
- IT 9002-89-5, Polyvinyl alcohol 25322-68-3, **Polyethyleneglycol**  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(protective colloid; use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)
- IT 37228-69-6,  $\beta$ -(1 $\rightarrow$ 6)-Glucanase  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
(use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)
- IT 9051-97-2  
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)  
(use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)
- IT 37361-00-5,  $\beta$ -(1 $\rightarrow$ 6)-Glucan  
RL: REM (Removal or disposal); PROC (Process)  
(use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)
- IT 25322-68-3, **Polyethyleneglycol**  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(protective colloid; use of nanoscalar water-soluble  $\beta$ -(1 $\rightarrow$ 3)-glucans to prepare rapidly **penetrating** cosmetics and pharmaceuticals)
- RN 25322-68-3 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -hydro- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2000:116928 HCAPLUS

DN 132:171116  
 TI Topical delivery systems for active agents  
 IN Niemiec, Susan M.; Wang, Jonas C. T.; Wisniewski, Stephen J.; Stenn, Kurt S.; Lu, Gwang Wei  
 PA Johnson & Johnson Consumer Companies, Inc., USA  
 SO PCT Int. Appl., 56 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000007627	A2	20000217	WO 1999-US17387	19990802
	WO 2000007627	A3	20000817		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 6284234	B1	20010904	US 1999-360412	19990723
	CA 2339231	AA	20000217	CA 1999-2339231	19990802
	AU 9956695	A1	20000228	AU 1999-56695	19990802
	EP 1104280	A2	20010606	EP 1999-943639	19990802
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	JP 2003521452	T2	20030715	JP 2000-563309	19990802
	US 2002048558	A1	20020425	US 2001-916019	20010726
	US 6419913	B2	20020716		
PRAI	US 1998-95289P	P	19980804		
	US 1999-363412	A	19990723		
	US 1999-360412	A	19990723		
	WO 1999-US17387	W	19990802		

AB This invention relates to a method for enhancing the transmembrane **penetration** of active agents using a nonionic lipid/surfactant-containing formulation as an enhancing agent. Various active agents, such as anti-dandruff agents, **hair** growth agents, **hair** inhibitor agents, anti-acne agents, anti-aging agents, depilatory agents, and depigmentation agents, may be effectively delivered into the **skin**, **hair** follicles and sebaceous glands using the compns. of the present invention. Thus, minoxidil (0.4 g) was dissolved in 4 mL propylene glycol and 12 mL EtOH to give a formulation containing 2%(weight/volume) minoxidil. DL-lactic acid (360 µL) and 0.626g sodium sulfate were added to the above formulation.

ICM A61K047-10

ICS A61K047-14; A61K047-34; A61K007-06

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 62

ST topical delivery system surfactant lipid

IT Polyoxyalkylenes, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(C10-18 fatty ethers; topical delivery systems for active agents)

IT Alcohols, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(C10-18, ethoxylated; topical delivery systems for active agents)

IT Monoglycerides  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(C3-50; topical delivery systems for active agents)

IT Diglycerides  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(C5-25; topical delivery systems for active agents)

IT Heat-shock proteins  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(HSP 27; topical delivery systems for active agents)

IT Heat-shock proteins  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(HSP 72; topical delivery systems for active agents)

IT Drug delivery systems  
(aerosols; topical delivery systems for active agents)

IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(alkoxylated; topical delivery systems for active agents)

IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(alkyl group-terminated; topical delivery systems for active agents)

IT Phenols, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(alkyl, alkoxylated; topical delivery systems for active agents)

IT Phenols, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(alkyl, ethoxylated; topical delivery systems for active agents)

IT Natural products, pharmaceutical  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(aloe; topical delivery systems for active agents)

IT Androgens  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(antiandrogens; topical delivery systems for active agents)

IT Hair preparations  
Shampoos  
(antidandruff; topical delivery systems for active agents)

IT Cosmetics  
(depilatories; topical delivery systems for active agents)

IT Fatty acids, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(esters; topical delivery systems for active agents)

IT Alcohols, biological studies  
Carboxylic acids, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(ethoxylated; topical delivery systems for active agents)

IT Drug delivery systems  
(gels; topical delivery systems for active agents)

IT Hair preparations  
(growth stimulants; topical delivery systems for active agents)

IT Carboxylic acids, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(hydroxy; topical delivery systems for active agents)

IT Acne  
Psoriasis  
(inhibitors; topical delivery systems for active agents)

IT Lipids, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(nonionic; topical delivery systems for active agents)

IT Drug delivery systems  
(ointments, creams; topical delivery systems for active agents)

IT Drug delivery systems  
(ointments; topical delivery systems for active agents)

IT Alcohols, biological studies  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(polyhydric; topical delivery systems for active agents)

IT Drug delivery systems  
(sprays; topical delivery systems for active agents)

IT Shale oils  
(sulfonated; topical delivery systems for active agents)

IT Orange  
(sweet; topical delivery systems for active agents)

IT Alopecia  
Anti-inflammatory agents  
Antibiotics  
Antioxidants  
Bath preparations  
Clove (*Syzygium aromaticum*)  
Ginseng (*Panax*)  
Rehmannia  
Shampoos  
Sunscreens  
Surfactants  
Swertia  
Zanthoxylum  
(topical delivery systems for active agents)

IT Alcohols, biological studies  
Cell adhesion molecules  
Coal tar  
Corticosteroids, biological studies  
Interleukin 1 $\alpha$   
Interleukin 1 $\beta$   
Interleukin 6  
Polyoxyalkylenes, biological studies  
Retinoids  
Steroids, biological studies  
Vitamins  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(topical delivery systems for active agents)

IT Drug delivery systems  
(topical; topical delivery systems for active agents)

IT 27638-00-2, Emulsynt GDL  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(Emulsynt GDL; topical delivery systems for active agents)

IT 79-14-1, GlyPure, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(GlyPure; topical delivery systems for active agents)

IT 1323-83-7, Kessco GDS 386F  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(Kessco GDS 386F; topical delivery systems for active agents)

IT 9081-34-9, 5 $\alpha$ -Reductase  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(isotypes; topical delivery systems for active agents)

IT 50-21-5, Lactic acid, biological studies 50-28-2, 17 $\beta$ -Estradiol,  
biological studies 50-81-7, Vitamin C, biological studies 56-81-5,  
Glycerin, biological studies 57-55-6, Propylene glycol, biological  
studies 57-88-5, Cholesterol, biological studies 57-92-1,  
Streptomycin, biological studies 58-95-7, Vitamin E acetate 59-02-9,  
 $\alpha$ -Tocopherol 64-17-5, Ethanol, biological studies 66-81-9,  
Cycloheximide 68-26-8, Retinol 69-72-7, Salicylic acid, biological  
studies 94-36-0, Benzoyl peroxide, biological studies 107-88-0,  
1,3-Butylene glycol 108-32-7, Arconate HP 110-27-0, Isopropyl  
myristate 112-80-1, Oleic acid, biological studies 123-31-9,  
Hydroquinone, biological studies 123-31-9D, Hydroquinone, derivs.  
123-99-9, Azelaic acid, biological studies 152-11-4, Verapamil  
hydrochloride 288-32-4D, Imidazole, derivs. 302-79-4, Tretinoin  
364-98-7, Diazoxide 378-44-9, Betamethasone 501-30-4, Kojic acid  
501-30-4D, Kojic acid, derivs. 551-11-1, Prostaglandin F2 $\alpha$   
745-65-3, PGE1 1197-18-8, Tranexamic acid 2609-46-3, Amiloride  
7704-34-9, Sulfur, biological studies 7757-82-6, Sodium sulfate,  
biological studies 9002-92-0, Polyethylene glycol lauryl ether  
9004-65-3, HPMC 9004-95-9, Polyethylene glycol cetyl ether 9005-00-9,  
Brij 76 11096-26-7, Erythropoietin 13463-41-7, Zinc pyrithione  
21829-25-4, Nifedipine 25322-68-3, Polyethylene glycol 25322-68-3D,  
Polyethylene glycol, C10-18 fatty ethers 25655-41-8, Povidone-iodine  
27306-79-2, Polyethylene glycol myristyl ether 38304-91-5, Minoxidil  
41621-49-2, Ciclopirox olamine 42399-41-7, Diltiazem 51234-28-7,  
Benoxaprofen 56093-45-9, Selenium sulfide 59865-13-3, Cyclosporin  
60559-98-0 62031-54-3, Fibroblast growth factor 62229-50-9, Epidermal  
growth factor 64296-33-9, Vitamin C palmitate 65277-42-1, Ketoconazole  
67914-69-6, Elubiol 68890-66-4, Piroctone olamine 98319-26-7,  
Finasteride 104987-11-3, FK-506 106392-12-5D, Polyethylene  
glycol-polypropylene glycol block copolymer, alkyl ethers  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(topical delivery systems for active agents)

IT 106392-12-5D, Polyethylene glycol-polypropylene glycol block  
copolymer, alkyl ethers  
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)  
(topical delivery systems for active agents)

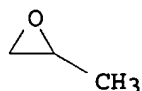
RN 106392-12-5 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, block (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8  
CMF C2 H4 O



L49 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 1998:742247 HCAPLUS  
DN 130:7291  
TI Polymer networks for cosmetic applications  
IN Ron, Eyal S.; Hand, Barry J.; Bromberg, Lev S.; Kearney, Marie; Schiller, Matthew E.; Ahearn, Peter M.; Luczak, Scott; Mendum, Thomas H. E.  
PA Medlogic Global Corp., USA  
SO PCT Int. Appl., 135 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 9850005	A1	19981112	WO 1998-US9211	19980508	
	W:			AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:			GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG		
	AU 9874723	A1	19981127	AU 1998-74723	19980508	
	EP 1011609	A1	20000628	EP 1998-922109	19980508	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		
PRAI	US 1997-853728	A	19970509			
	WO 1998-US9211	W	19980508			

AB A cosmetic composition consists of carrier, comprising a reverse thermal viscosifying polymer network comprising at least 1 poloxamer component capable of aggregation in response to a change in temperature randomly bonded to at least 1 poly(acrylic acid) component and a cosmetically active agent which imparts a preselected cosmetic effect, the carrier and the agent being disposed within an aqueous-based medium. Thus, a polymer network was prepared from Pluronic F127 and poly(acrylic acid). A moisturizer was prepared from the polymer network 20.0, glycerin 5.0, PPG myristyl ether propionate 3.0, dl-panthenol 0.5, Germaben II 0.1, disodium EDTA 0.2, citric acid 0.01 and water 71.19%.

IC ICM A61K007-00  
ICS A61K007-021; A61K007-025; A61K007-06; A61K007-09; A61K007-16; A61K007-32; A61K007-42; A61K031-74

CC 62-4 (Essential Oils and Cosmetics)  
Section cross-reference(s): 37

ST polymer **interpenetrating** network cosmetic; polyacrylate Pluronic  
**interpenetrating** network cosmetic

IT Shaving preparations  
(aftershave; polymer networks for cosmetic applications)

IT **Skin**, disease  
(aging, inhibitors; polymer networks for cosmetic applications)

IT Shampoos  
(antidandruff; polymer networks for cosmetic applications)

IT **Skin** preparations (pharmaceutical)  
(astringents; polymer networks for cosmetic applications)

IT **Hair** preparations  
(bleaches; polymer networks for cosmetic applications)

IT Bath preparations  
(bubble; polymer networks for cosmetic applications)

IT Tooth  
(caries, inhibitors; polymer networks for cosmetic applications)

IT Inflammation  
(cellulitis, inhibitors; polymer networks for cosmetic applications)

IT Cosmetics  
(cleansing; polymer networks for cosmetic applications)

IT Cosmetics  
**Hair** preparations  
(conditioners; polymer networks for cosmetic applications)

IT Cosmetics  
(creams; polymer networks for cosmetic applications)

IT Cosmetics  
(depilatories; polymer networks for cosmetic applications)

IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, 3-hydroxypropyl Me, ethers with polyethylene-polypropylene  
glycol acetate; polymer networks for cosmetic applications)

IT Polyoxyalkylenes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen polysiloxane-; polymer networks for cosmetic  
applications)

IT Polysiloxanes, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-; polymer networks for cosmetic  
applications)

IT Bath preparations  
(douches; polymer networks for cosmetic applications)

IT **Hair** preparations  
(**dyes**; polymer networks for cosmetic applications)

IT Cosmetics  
(emollients; polymer networks for cosmetic applications)

IT Cosmetics  
(eye liners; polymer networks for cosmetic applications)

IT Cosmetics  
(eye makeups; polymer networks for cosmetic applications)

IT Cosmetics  
(eye shadows; polymer networks for cosmetic applications)

IT Cosmetics  
(eyebrow pencils; polymer networks for cosmetic applications)

IT Cosmetics  
(face cleansers; polymer networks for cosmetic applications)



IT Cosmetics  
    (face packs; polymer networks for cosmetic applications)

IT Cosmetics  
    (foams; polymer networks for cosmetic applications)

IT Cosmetics  
    (foundations; polymer networks for cosmetic applications)

IT Acne  
    **Skin**, disease  
        (inhibitors; polymer networks for cosmetic applications)

IT **Skin**, disease  
    (irritation, inhibitors; polymer networks for cosmetic applications)

IT Cosmetics  
    (lipsticks; polymer networks for cosmetic applications)

IT Cosmetics  
    (lotions; polymer networks for cosmetic applications)

IT Cosmetics  
    (makeups; polymer networks for cosmetic applications)

IT Cosmetics  
    (mascaras; polymer networks for cosmetic applications)

IT Cosmetics  
    (moisturizers; polymer networks for cosmetic applications)

IT **Hair** preparations  
    (mousses; polymer networks for cosmetic applications)

IT Cosmetics  
    (nail lacquers; polymer networks for cosmetic applications)

IT Bath preparations  
    (oils; polymer networks for cosmetic applications)

IT **Hair** preparations  
    (permanent wave; polymer networks for cosmetic applications)

IT Abrasives  
Anti-inflammatory agents  
Antibacterial agents  
Antioxidants  
Antiperspirants  
Bath preparations  
Chelating agents  
Colognes  
Cosmetics  
Dentifrices  
Deodorants  
Detergents  
Disinfectants  
Emulsifying agents  
Flavor  
Fungicides  
Humectants  
    **Interpenetrating** polymer networks  
Lubricants  
Mouthwashes  
Odor and Odorous substances  
Opacifiers  
Perfumes  
Pigments, nonbiological  
Plasticizers  
Preservatives  
Propellants (sprays and foams)  
Sequestering agents  
Shampoos  
Shaving preparations  
Stabilizing agents

Sunscreens  
 Suntanning agents  
 Surfactants  
 Thickening agents  
 Viscosity  
 Wetting agents  
 (polymer networks for cosmetic applications)

IT Acids, biological studies  
 Enzymes, biological studies  
 Essential oils  
 Polymers, biological studies  
 Polysiloxanes, biological studies  
 Proteins, general, biological studies  
 Soaps  
 Vitamins  
 Waxes  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (polymer networks for cosmetic applications)

IT Cosmetics  
 (powders; polymer networks for cosmetic applications)

IT Antiperspirants  
 (roll-on; polymer networks for cosmetic applications)

IT Cosmetics  
 (rouges; polymer networks for cosmetic applications)

IT Cosmetics  
 (skin-lightening; polymer networks for cosmetic applications)

IT Drug delivery systems  
 (solns., ophthalmic; polymer networks for cosmetic applications)

IT Hair preparations  
 (sprays; polymer networks for cosmetic applications)

IT Deodorants (personal)  
 (sticks; polymer networks for cosmetic applications)

IT Hair preparations  
 (straighteners; polymer networks for cosmetic applications)

IT Perfumes  
 (toilet waters; polymer networks for cosmetic applications)

IT 106392-12-5, Pluronic  
 RL: BUU (Biological use, unclassified); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (interpenetrating polymer networks; polymer networks for cosmetic applications)

IT 9003-01-4, Polyacrylic acid  
 RL: BUU (Biological use, unclassified); POF (Polymer in formulation); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (interpenetrating polymer networks; polymer networks for cosmetic applications)

IT 56-81-5, 1,2,3-Propanetriol, biological studies 67-63-0, Isopropanol, biological studies 872-50-4, 2-Pyrrolidinone, 1-methyl-, biological studies 1327-41-9, Aluminum chlorohydrate 7447-40-7, Potassium chloride (KCl), biological studies 9003-39-8, PVP 9005-65-6, Tween 80 9016-45-9 9051-57-4, Rhodapex CO-436 12616-49-8, Plurafac C-17 51410-72-1 84517-95-3, Germaben II  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
 (polymer networks for cosmetic applications)

IT 106392-12-5, Pluronic  
 RL: BUU (Biological use, unclassified); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (interpenetrating polymer networks; polymer networks for

cosmetic applications)

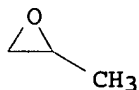
RN 106392-12-5 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, block (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:719244 HCAPLUS

DN 130:7281

TI Polymer networks for cosmetic applications

IN Ron, Eyal S.; Hand, Barry J.; Bromberg, Lev S.; Kearney, Marie; Schiller, Matthew E.; Ahearn, Peter M.; Luczak, Scott; Mendum, Thomas H. E.

PA Medlogic Global Corp., USA

SO PCT Int. Appl., 122 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9848768	A1	19981105	WO 1998-US8931	19980501
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2259464	AA	19981105	CA 1998-2259464	19980501
	AU 9871749	A1	19981124	AU 1998-71749	19980501
	EP 927019	A1	19990707	EP 1998-918925	19980501
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1997-846883	A1	19970501		
	WO 1998-US8931	W	19980501		

AB A cosmetic composition consists of carrier, comprising a reverse thermal

viscosifying polymer network comprising at least 1 poloxamer component capable of aggregation in response to a change in temperature randomly bonded to at least 1 poly(acrylic acid) component and a cosmetically active agent which imparts a preselected cosmetic effect, the carrier and the agent being disposed within an aqueous-based medium. Thus, a polymer network was prepared from Pluronic F127 and poly(acrylic acid). A moisturizer was prepared from the polymer network 20.0, glycerin 5.0, PPG myristyl ether propionate 3.0, dl-panthenol 0.5, Germaben II 0.1, disodium EDTA 0.2, citric acid 0.01 and water 71.19%.

IC ICM A61K007-00  
 ICS A61K007-021; A61K007-025; A61K007-06; A61K007-09; A61K007-16;  
 A61K007-32; A61K007-42; A61K031-74  
 CC 62-4 (Essential Oils and **Cosmetics**)  
 Section cross-reference(s): 37  
 ST polymer **interpenetrating** network cosmetic  
 IT Shaving preparations  
 (aftershave; polymer networks for cosmetic applications)  
 IT **Skin**, disease  
 (aging, inhibitors; polymer networks for cosmetic applications)  
 IT Shampoos  
 (antidandruff; polymer networks for cosmetic applications)  
 IT **Skin** preparations (pharmaceutical)  
 (astringents; polymer networks for cosmetic applications)  
 IT **Hair** preparations  
 (bleaches; polymer networks for cosmetic applications)  
 IT Bath preparations  
 (bubble; polymer networks for cosmetic applications)  
 IT Tooth  
 (caries, inhibitors; polymer networks for cosmetic applications)  
 IT Inflammation  
 (cellulitis, inhibitors; polymer networks for cosmetic applications)  
 IT Cosmetics  
 (cleansing; polymer networks for cosmetic applications)  
 IT Cosmetics  
**Hair** preparations  
 (conditioners; polymer networks for cosmetic applications)  
 IT Cosmetics  
 Shaving preparations  
 (creams; polymer networks for cosmetic applications)  
 IT Cosmetics  
 (depilatories; polymer networks for cosmetic applications)  
 IT Polysiloxanes, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)  
 (di-Me, 3-hydroxypropyl Me, ethers with polyethylene-polypropylene  
 glycol acetate, Dow Corning 190; polymer networks for cosmetic  
 applications)  
 IT Bath preparations  
 (douches; polymer networks for cosmetic applications)  
 IT **Hair** preparations  
 (dyes; polymer networks for cosmetic applications)  
 IT Cosmetics  
 (emollients; polymer networks for cosmetic applications)  
 IT Cosmetics  
 (eye liners; polymer networks for cosmetic applications)  
 IT Cosmetics  
 (eye makeups; polymer networks for cosmetic applications)  
 IT Cosmetics  
 (eye shadows; polymer networks for cosmetic applications)  
 IT Cosmetics

(eyebrow pencils; polymer networks for cosmetic applications)

IT Cosmetics  
(face cleansers; polymer networks for cosmetic applications)

IT Cosmetics  
(face packs; polymer networks for cosmetic applications)

IT Cosmetics  
(foams; polymer networks for cosmetic applications)

IT Cosmetics  
(foundations; polymer networks for cosmetic applications)

IT Acne  
Skin, disease  
(inhibitors; polymer networks for cosmetic applications)

IT Skin, disease  
(irritation, inhibitors; polymer networks for cosmetic applications)

IT Cosmetics  
(lipsticks; polymer networks for cosmetic applications)

IT Cosmetics  
(lotions; polymer networks for cosmetic applications)

IT Cosmetics  
(makeups; polymer networks for cosmetic applications)

IT Cosmetics  
(mascaras; polymer networks for cosmetic applications)

IT Cosmetics  
(moisturizers; polymer networks for cosmetic applications)

IT Hair preparations  
(mousses; polymer networks for cosmetic applications)

IT Cosmetics  
(nail lacquers, removers; polymer networks for cosmetic applications)

IT Cosmetics  
(nail lacquers; polymer networks for cosmetic applications)

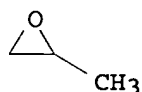
IT Bath preparations  
(oils; polymer networks for cosmetic applications)

IT Hair preparations  
(permanent wave; polymer networks for cosmetic applications)

IT Abrasives  
Anti-inflammatory agents  
Antibacterial agents  
Antioxidants  
Antiperspirants  
Bath preparations  
Chelating agents  
Colognes  
Cosmetics  
Dentifrices  
Deodorants  
Detergents  
Disinfectants  
Emulsifying agents  
Fungicides  
Humectants  
Interpenetrating polymer networks  
Lubricants  
Mouthwashes  
Odor and Odorous substances  
Opacifiers  
Perfumes  
Pigments, nonbiological  
Plasticizers  
Preservatives  
Propellants (sprays and foams)

Sequestering agents  
Shampoos  
Shaving preparations  
Stabilizing agents  
Sunscreens  
Suntanning agents  
Surfactants  
Thickening agents  
Viscosity  
Wetting agents  
    (polymer networks for cosmetic applications)  
IT Acids, biological studies  
Enzymes, biological studies  
Essential oils  
Polysiloxanes, biological studies  
Proteins, general, biological studies  
Soaps  
Vitamins  
Waxes  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
    (polymer networks for cosmetic applications)  
IT Polymers, biological studies  
RL: BUU (Biological use, unclassified); POF (Polymer in formulation); BIOL  
(Biological study); USES (Uses)  
    (polymer networks for cosmetic applications)  
IT Cosmetics  
    (powders; polymer networks for cosmetic applications)  
IT Antiperspirants  
    (roll-on; polymer networks for cosmetic applications)  
IT Cosmetics  
    (rouges; polymer networks for cosmetic applications)  
IT Cosmetics  
    (skin-lightening; polymer networks for cosmetic applications)  
IT Drug delivery systems  
    (solns., ophthalmic; polymer networks for cosmetic applications)  
IT Hair preparations  
    (sprays; polymer networks for cosmetic applications)  
IT Deodorants (personal)  
    (sticks; polymer networks for cosmetic applications)  
IT Hair preparations  
    (straighteners; polymer networks for cosmetic applications)  
IT Perfumes  
    (toilet waters; polymer networks for cosmetic applications)  
IT 106392-12-5, Pluronic  
RL: BUU (Biological use, unclassified); POF (Polymer in formulation); PRP  
(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
    (interpenetrating polymer networks; polymer networks for  
cosmetic applications)  
IT 9003-01-4, Polyacrylic acid  
RL: BUU (Biological use, unclassified); POF (Polymer in formulation); THU  
(Therapeutic use); BIOL (Biological study); USES (Uses)  
    (interpenetrating polymer networks; polymer networks for  
cosmetic applications)  
IT 56-81-5, 1,2,3-Propanetriol, biological studies 872-50-4,  
1,2-Methylpyrrolidone, biological studies 1327-41-9, Aluminum  
chlorohydrate 9005-65-6, Tween-80 9016-45-9 9051-57-4, Rhodapex  
CO-436 12616-49-8, Plurafac C-17 84517-95-3, Germaben II  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(polymer networks for cosmetic applications)  
 IT 106392-12-5, Pluronic  
 RL: BUU (Biological use, unclassified); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (interpenetrating polymer networks; polymer networks for cosmetic applications)  
 RN 106392-12-5 HCAPLUS  
 CN Oxirane, methyl-, polymer with oxirane, block (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 75-56-9  
 CMF C3 H6 O



CM 2  
 CRN 75-21-8  
 CMF C2 H4 O



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1963:447599 HCAPLUS

DN 59:47599

OREF 59:8542a-b

TI Urea-fatty alcohol adduct **hair dyeing** composition

IN Austin, William E.; Levin, Fred A.; Binaski, Theodore H.

PA Nestle-Le Mur Co.

SO 5 pp.

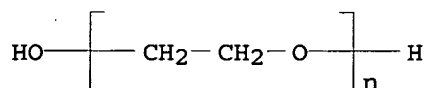
DT Patent

LA Unavailable

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3098013		19630716	US	19600315
	BE 641262			BE	
	GB 1035347			GB	

AB A **dyeing** comp. for imparting semi-permanent color to hair was prepared, consisting of 0.25-2 weight % of a dispersible insol. **dye**, 0.5-4 weight % of a C10-30 fatty alc. poly(oxyethylene) ether as a dispersing agent, and 2-10 weight % of a C10-30 fatty alc.-urea adduct. Thus, 2.0 parts poly(oxyethylene) lauryl ether and 2.0 parts lauryl alc. were blended at 55°; 1 part of the disperse violet **dye**, C.I. 4, was blended in by stirring to form a homogeneous paste. Water (80 parts) heated to 85° was stirred into the mixture, 4.0 parts urea dissolved in 11 parts H2O added, and stirring was continued until the mixture had cooled to room temperature The **dye** composition imparted a silver-gray color to white hair.

INCL 167088000  
 CC 29 (Essential Oils and Cosmetics)  
 IT Hair  
   ((aminonitrophenyl) biguanides and guanylureas as, containing alc.-urea adducts and polyoxyethylene ether dispersants)  
 IT Dyes  
   (amine, anthraquinone or azo disperse and solvent, compns. with alc.-urea adducts and polyoxyethylene ether dispersants)  
 IT Ethers  
   (of glycols (polyethylene), hair dye compns. containing dispersant)  
 IT Dyeing  
   (of hair, with dye compns. with alc.-urea adducts and polyethylene glycol ether dispersants)  
 IT Dispersing agents  
   (polyethylene glycol ethers as, hair dyeing compds. containing)  
 IT Alcohols  
   (reaction products of, with urea, hair dyeing compns. containing, to increase dispersion, penetration and viscosity)  
 IT 9002-92-0, Dodecyl alcohol, poly(ethylene glycol)ether  
   (as dispersing agents in hair drying compns.)  
 IT 57-13-6, Urea  
   (compds. of, with alcs., hair dyeing compns. containing)  
 IT 25322-68-3, Glycols, polyethylene  
   (ethers, hair dyeing compns. containing dispersant)  
 IT 75-21-8, Ethylene oxide  
   (reaction products with dodecyl alc., hair dyeing compns. containing dispersant)  
 IT 25322-68-3, Glycols, polyethylene  
   (ethers, hair dyeing compns. containing dispersant)  
 RN 25322-68-3 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -hydro- $\omega$ -hydroxy- (9CI) (CA INDEX NAME)



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